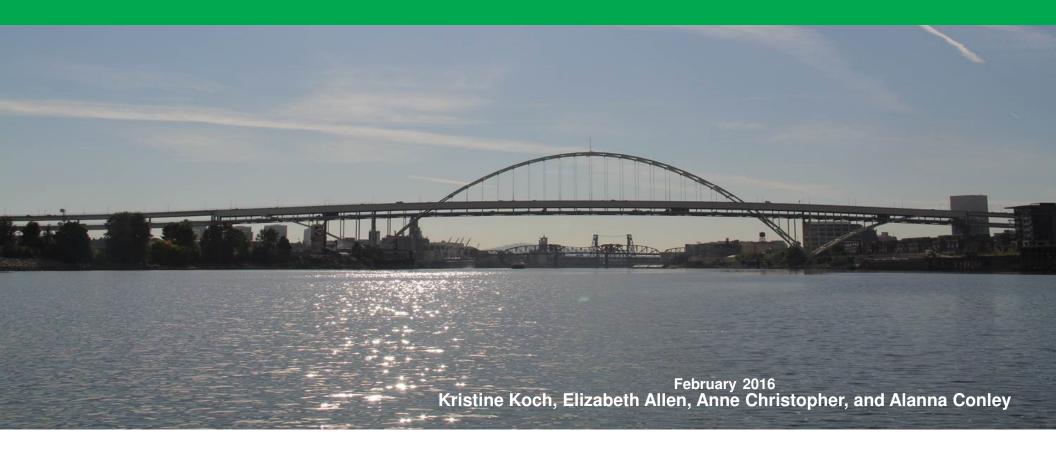


Bridge to the Portland Harbor Cleanup



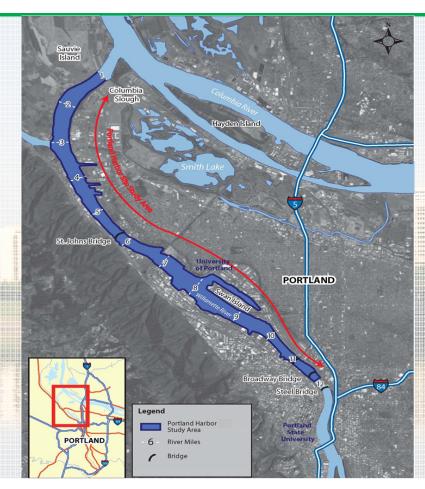


Portland Harbor Superfund Site

- Where is it?
- What is it?
 - Superfund Process & Goals
- Why does it matter to you and the community?
- How and when should the community engage?



Where is Portland Harbor and how is it used?



- Industry
- Recreation (boating, swimming, camping)
- Fishing
- Shipping/Navigation
- Ecological habitat
- Tribal fishing and ceremonial practices
- Migratory corridor for salmon

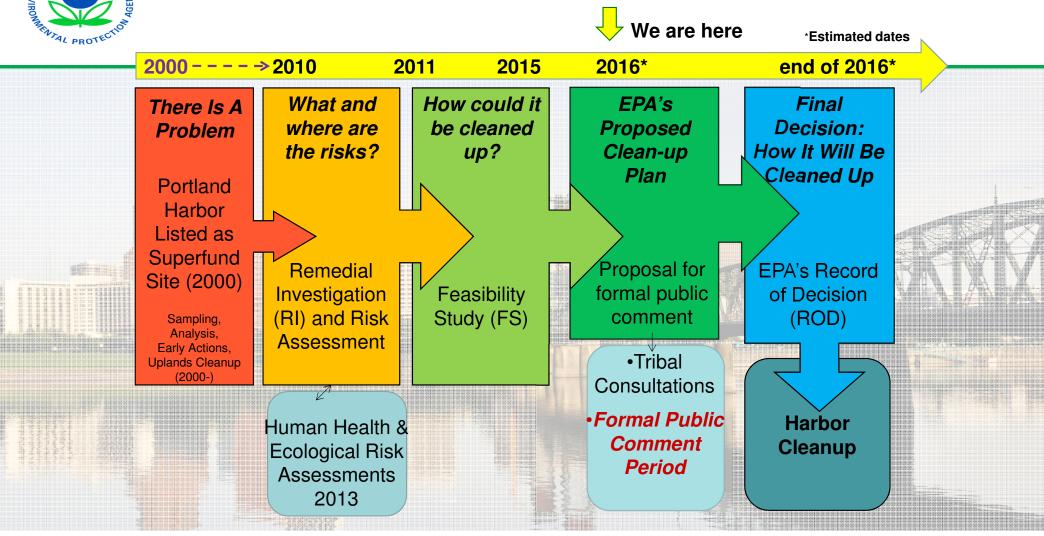


What are the goals of Superfund?

- Protect human health and the environment
- Encourage participation of States and Tribes
- Provide opportunity for community engagement
- Make responsible party pay for cleanup



Where is Portland Harbor in the Superfund Process?





How did Portland Harbor become contaminated?



- Ship building, repair & dismantling
- Wood products & wood treating
- Chemical manufacturing and distribution
- Metal recycling, production & fabrication
- Manufactured gas production
- Electrical production & distribution
- Bulk fuel distribution & storage
- Asphalt manufacturing
- Steel mills, smelters & foundries
- Commodities shipping terminals
- Rail yards



What are the pollution issues?

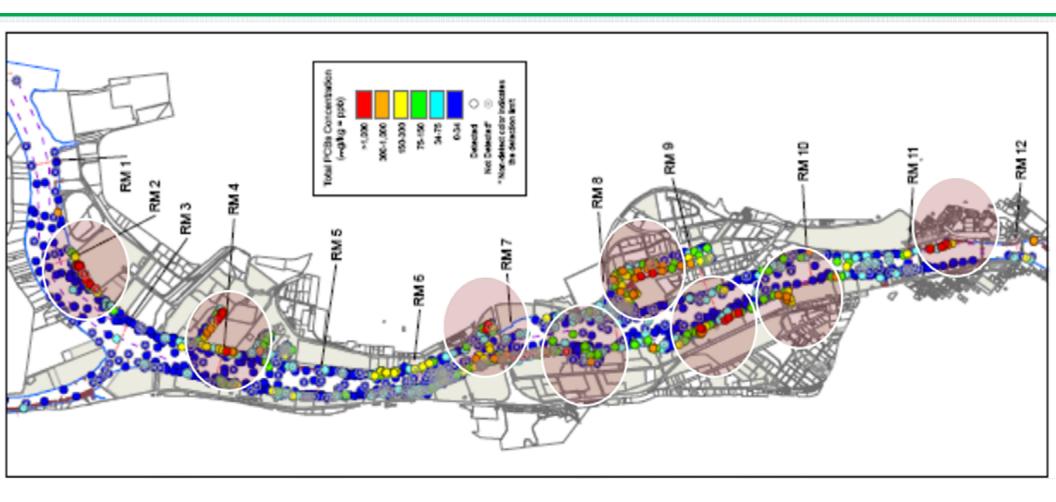
- 65 contaminants of concern
 - Metals
 - Pesticides/Herbicides
 - Dioxins/Furans
 - PCBs
 - PAHs
- "Persistent organic pollutants"
 - not readily broken down in the environment
- Widespread vs. local contamination





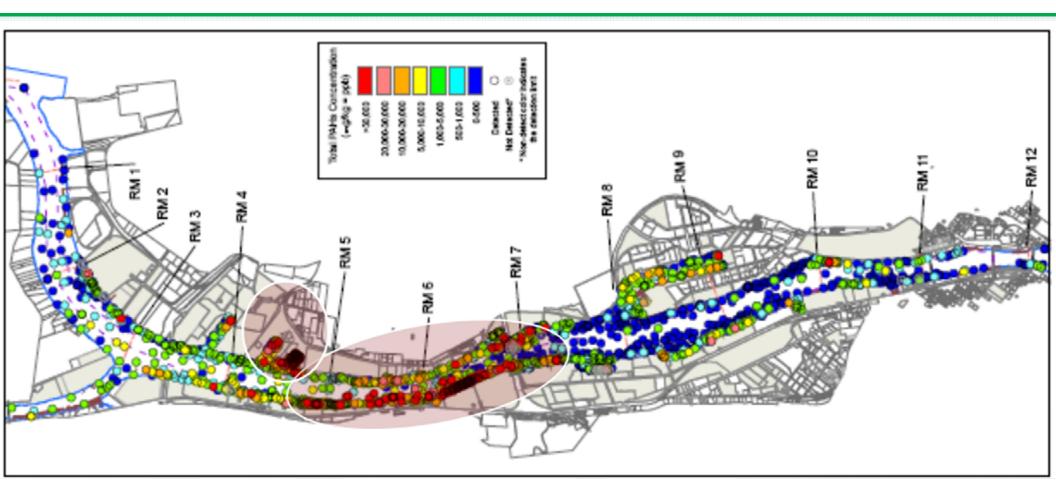


Where is the contamination?



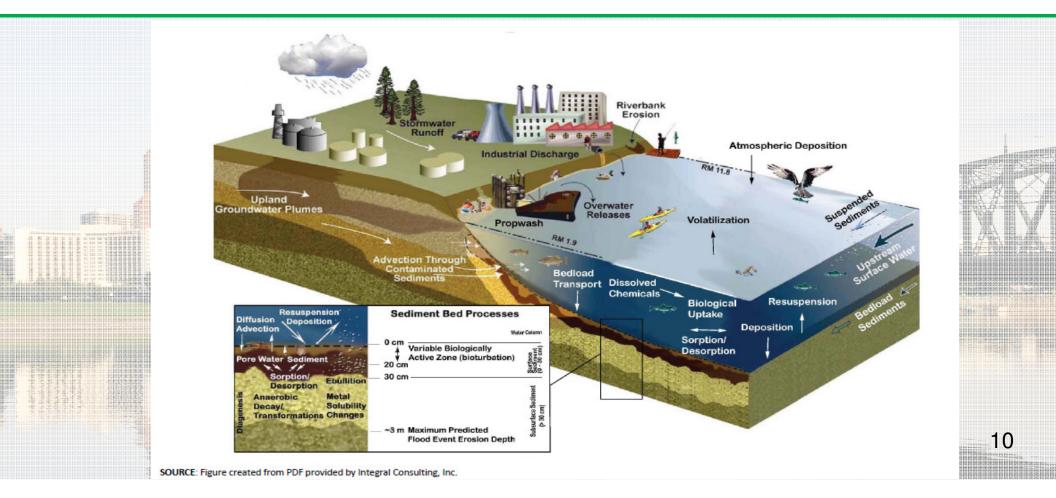


Where is the contamination?



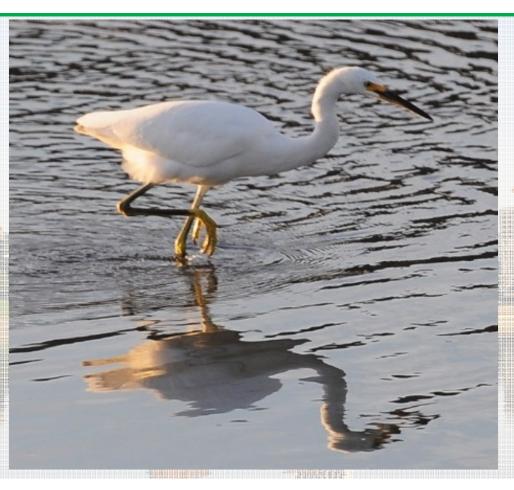


How did contamination get to the river?





What are the impacts to wildlife and fish?



- Worms and bugs exposed to contaminants in river bottom
 - Survival, reproduction and growth
- Fish accumulate contaminants through food chain and exposure
- Birds and mammals feed on fish and bugs



What are the risks to people?



- Mainly from eating contaminated fish
- Resident fish pose greatest risk
 - carp, bass, catfish
- Children and infants are most vulnerable



What are the cleanup methods?

Dredging



Capping



Treatment









- Dredging
- Capping
- In-situ Treatment
- MNR/EMNR



How will the river get cleaned up?

- Cleanup will be a combination of methods
- Finding the right combination considers
 - Protection of human health and the environment
 - Time for recovery
 - How it impacts the community
 - Costs



Why does this cleanup matter?

EPA

- Protecting habitat, fish/wildlife and health
- Business
 - Cleanup costs
 - Economic benefits
- Community
 - Future Uses of River what is your vision?
 - Eating More Fish
 - Neighborhood Impacts



How and when should the community engage?

Participate in information sessions:

✓ Feb 8th 7pm, Audubon Society

✓ Feb 9th - 7pm, League of Women Voters

√Feb 11th - 7pm, Matt Dishman Center

√Feb 18th - 6:30pm, Wilson HS Cafeteria

✓ March 3rd – 7pm Webinar – more info coming soon!

✓ March 19th – 1pm, Matt Dishman Center



April – Proposed Plan, Public review & comment

- ✓ Series of pubic meetings
- ✓ Oral comments
- ✓ Written comments
- Email comments
- ✓ Postal mail

EPA's Portland Harbor Web page: http://go.usa.gov/3Wf2B



Thank You!

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